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(54) Automatic tuning system for a mobile DVB-T receiver

(57) An automatic tuning system for a mobile DVB-T receiver. The system comprises a position detecting system, a plurality of tuners, a plurality of demodulators configured to process DVB-T signals, each of which is paired with one of the plurality of tuners, for demodulating each of the signals received by each of the tuners and comparing the strengths of the signals.

A database sets a frequency code relating to the

optimum frequency found by the demodulators, to an area-cell code relating to the receiver position, in a processor.

The processor controls the automatic tuning system on the basis of the stored frequency codes and the current position data from the position detecting system.

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EUROPEAN SEARCH REPORT

Application Number

EP 05 25 3494

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Category	Citation of document with in of relevant passa	ndication, where appropriate, ges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 4 476 582 A (STR 9 October 1984 (198 * abstract * * column 3, line 20 * column 4, line 37 * column 7, line 58 * figure 1 *	34-10-09)	1,3-5,7, 9-11	H04N5/00
Α	PATENT ABSTRACTS OF vol. 2000, no. 19, 5 June 2001 (2001-6 & JP 2001 044803 A 16 February 2001 (2 * abstract * * figure 1 *	06-05) (FUJITSU TEN LTD),	1,7	
Α	US 5 537 674 A (KIS 16 July 1996 (1996- * column 2, line 1 * column 7, line 37 * figures 1,2,4 *		1,3,5-7, 9,11	TECHNICAL FIELDS SEARCHED (IPC)
A	17 May 2000 (2000-6 * paragraph [0009] * paragraph [0035]		1-3,6-9	H03J H04N
	The present search report has	been drawn up for all claims	_	
	Place of search	Date of completion of the search	1	Examiner
	Munich	9 December 2005	Fra	gua, M
X : part Y : part docu A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone cularly relevant if oombined with anot ment of the same category nological background written disclosure mediate document	T : theory or princip E : earlier patent do after the filing da	le underlying the in cument, but publis te in the application or other reasons	nvention shed on, or

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 05 25 3494

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-12-2005

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4476582	A	09-10-1984	DE EP JP JP JP	3214155 A1 0092055 A1 1676588 C 3042734 B 58188938 A	20-10-198 26-10-198 26-06-199 28-06-199 04-11-198
JP 2001044803	Α	16-02-2001	NONE		
US 5537674	Α	16-07-1996	NONE		
EP 1001627	A	17-05-2000	WO US	9962254 A1 6711379 B1	02-12-199 23-03-200

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 $\stackrel{\bigcirc}{\mathbb{H}}$ For more details about this annex : see Official Journal of the European Patent Office, No. 12/82